L 30b-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T-2/EWP(t)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AP5025209 ETC(m) EM/JD/WW SOURCE CODE: UR/0030/65/000/009/0052/0056

AUTHORS: Kobrinskiy, A. Ye.; Koliskor, A. Sh.; Levkovskiy, Ye. I.; Popov, V. Ye.; Sergeyev, V. I. 48 46 3

ORG: Institute of Machine Science, State Committee on Machine Construction under Gosplan SSSR and the Academy of Sciences, SSSR (Institut mashinovedeniya, Gosudarstvennogo komiteta po mashinostroyeniyu pri Gosplane SSSR i Akademii nauk SSSR)

TITLE: A self-adjusting system of programmed machine control 14

SOURCE: AN SSSR. Vestnik, no. 9, 1965, 52-56

TOPIC TAGS: self adaptive control, precision finishing, measuring instrument, control equipment, control system

ABSTRACT: Causes of production errors and means of avoiding them in the case of programmed metal parts manufacture are discussed. It is pointed out that many factors having a significant effect on the accuracy and productivity of work processes cannot be entirely accounted for in preliminary process programming and hence must be accounted for in a self-adjusting control system. Examples of the hard-to-control factors are geometric machining errors, heat and elastic deformation of machine units, and others. The principal feature of the self-adjustment mechanism is an "ability" to absorb information on the results of previous work and to make appropriate adjustments in the process control program for succeeding articles. An example is given of a

Card 1/2

L 9406-66

ACC NR: AP5025209

self-adjusting program-controlled cutting device used in the production of blades for turbojet compressors. A sketch of the cutting configuration is shown in Fig. 1.

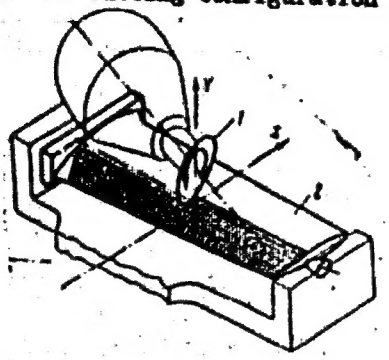

Fig. 1.

The milled piece 1 moves relative to the cutter 2 as directed by a program controlling motion of the cutter along the axes X and Y. The machined article passes from the milling tool shown to a measuring device which evaluates machining errors. From the measurements obtained, signals are generated. These cause adjustments to be made in the program controlling the next stage in the machining process for this article. A description and photographs of the major equipment used in the process are given. Experimental tests of the self-adjustment method resulted in marked reductions in machining errors in the case of the compressor blade cutting. Orig. art. has: 5 figures

SUB CODE: 09, 13/ SUBM DATE: none

Card 2/2

LEVITSKIY, N.I., doktor tekhn. nauk prof., otv. red.; BLAGONRAVOV, A.A., akademik, red.; BESSONOV, A.P., doktor tekhn. nauk, red.; DIMENTBERG, F.M., doktor tekhn. nauk, prof., red.; ZINOV'YEV, V.A., doktor tekhn. nauk, prof., red.; KOBRINSKIY, A.Ye., doktor tekhn. nauk, red.; CHERKUDINOV, S.A., doktor tekhn. nauk, red.

[Current problems in the theory of machines and mechanisms] Sovremennye problemy teorii mashin i mekhanizmov. Moskva, Nauka, 1965. 342 p. (MIRA 19:1)

1. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut mashinovedeniya.

L 27923-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l) BC

ACC NR: AP6017759 SOURCE CODE: UR/0380/65/000/004/0003/0016

AUTHOR: Kobrinskiy, A. Ye. (Moscow); Tyves, L. I. (Moscow) 22 B

ORG: none

TITLE: Dynamics and stability of systems containing two impact pairs

SOURCE: Mashinovedeniye, no. 4, 1965, 3-16

TOPIC TAGS: control system stability, perturbation

ABSTRACT: As a rule, the construction of an adequate dynamic model of a vibroimpact system presents no difficulties, and its investigation permits the most important properties and behavior of the system to be studied. However, the mechanisms of machines, instruments and control systems may contain several colliding elements, as well as a large number of kinematic pairs whose construction causes certain nominal clearance values, and it is by no means always possible to construct a simple dynamic model enabling the most important properties of an initial system to be ascertained and studied. Accordingly, existing methods of investigating the dynamics and stability of vibroimpact systems are limited in this sense and require further development. The present article shows the possibility of generalizing developed methods for the analysis of dynamics and stability in the case of systems containing two impact pairs. The article begins by discussing questions involved in the construction of dynamic models

Card 1/2 UDC: 531.395

L 27923-65
ACC NR: AP6017759

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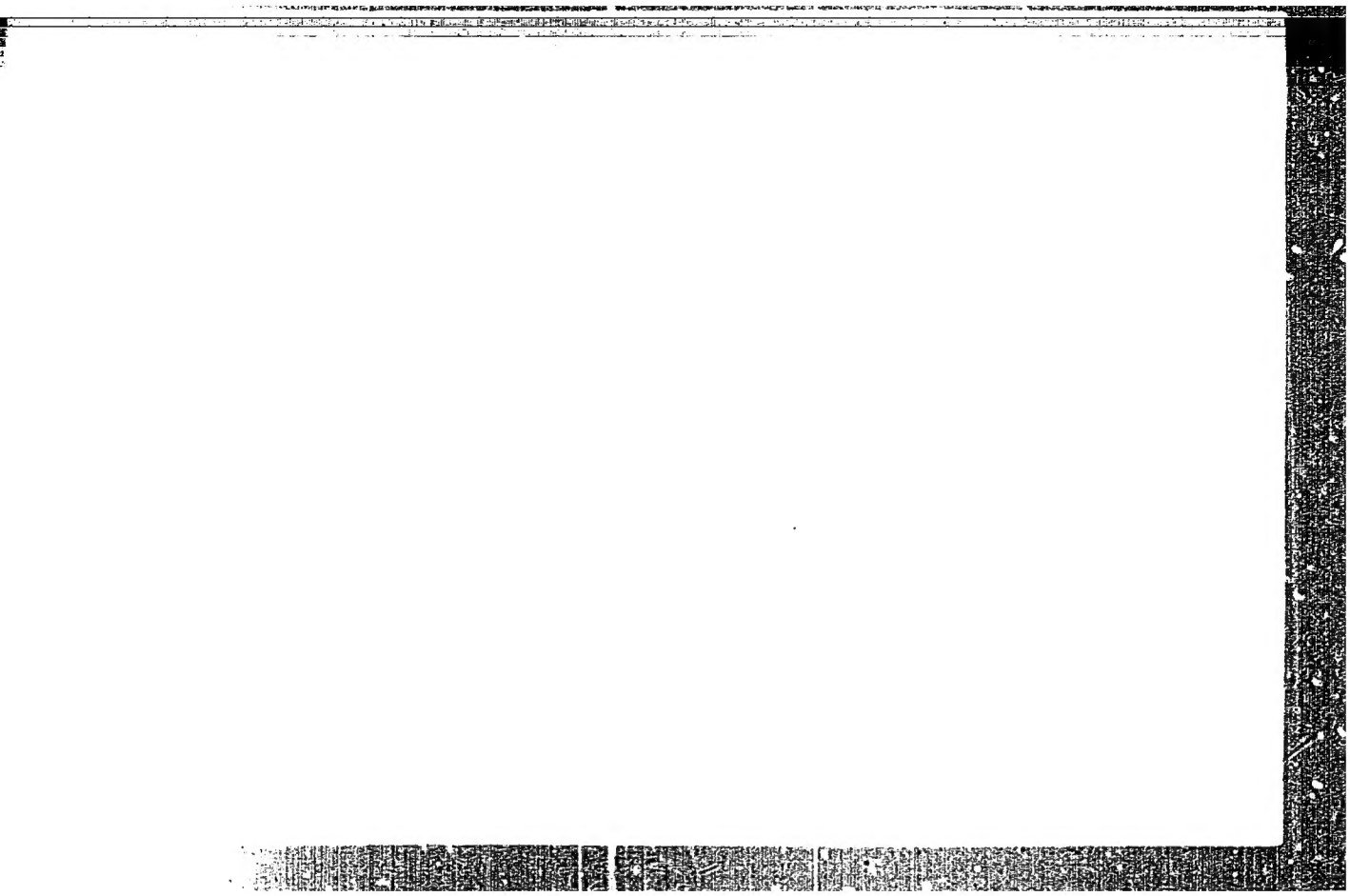
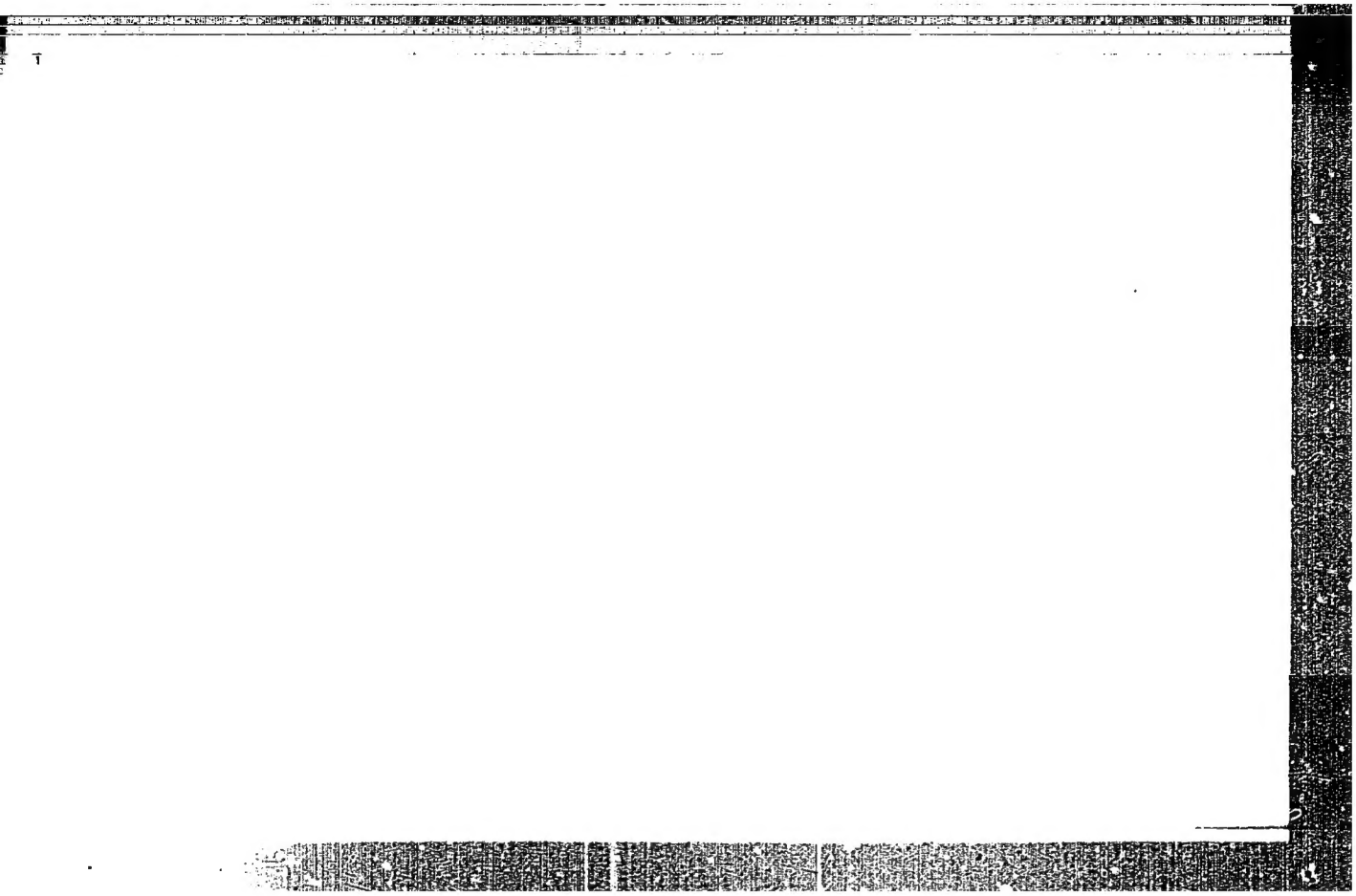
of such systems, including the definition of the terms impact pair ("a set of two elements of a vibroimpact system which move with collisions"), open systems (systems which "contain elements entering into only one impact pair") and closed systems (systems "where each of the elements enters into two impact pairs"). The article then considers the dynamics of a three-mass symmetric system containing two impact pairs and, by the method of alignment using the apparatus of finite differences, investigates the stability of periodic motions in relation to small perturbations. Orig. art. has: 25 formulas and 10 figures. [JPRS]

SUB CODE: 13 / SUBM DATE: 02Apr65 / ORIG REF: 003

Card 2/2 BLG





control systems.

KOBRINSKIY, G.D.

SOLOV'YEV, V.D., SELIMOV, M.A., KOBRINSKIY, G.D.

Local use of antirabic gamma globulin for the prophylaxis of rabies. Vop. virus 3 no.2:115-116 Mr-Ap '58 (MIRA 11:5)

1. Otdel virusov Moskovskogo instituta vaktsin i syvorotok imeni I.I. Mechnikova.

(RABIES, prevention & control
antirabic gamma globulin (Rus))
(GAMMA GLOBULIN,
antirabic gamma globulin, use in prev. & control of rabies (Rus))

SELIMOV, M.; BOLTUCIJ, L.; SEMENOVA, E.; KOBRINSKIJ, G.; ZMUSKO, L.

The use of antirabies gamma globulin in subjects severly bitten by rabid wolves or other animals. J. Hyg. Epidem., Praha 3 no.2: 168-180 1959.

1. [Moscauer I.I. Metschnikov Wissenschaftliches Forschungsinstitut für Sera und Impfstoffe]
(RABIES, immunology)
(GAMMA GLOBULIN)

NIKITENKO, A.A.; KOBRINSKIY, G.D.

Fractionation and study of the specific activity of antirabies α- and β-globulins. Vop. virus 5 no.4:436-441 Jl-Ag '60. (MIRA 14:1)

1. Moskovskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok imeni I.I.Mechnikova.

(RABIES) (GLOBULIN)

KOBRINSKIY, G.D.

Study of the properties of antirabies gamma globulin in local applications to wounds infected with the virus of street rabies. Vop. virus. 5 no. 6:660-665 N-D '60. (MIRA 14:4)

1/ Moskovskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok imeni I.I. Mechnikova.
(RABIES) (GAMMA GLOBULIN)

SELIMOV, M.A.; SEMENOVA, Ye.V.; KOBRINSKIY, G.D.; BOLTUTSIY, L.G.

Use of anti-rabies globulin in the treatment of patients with postvaccinal paralysis. Zhur. nerv. i psikh. 60 no. 2:150-154 '60. (MIRA 14:4)

1. Moskovskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok imeni I.I. Mechnikova.
(PARALYSIS) (RABIES) (VACCINATION) (GAMMA GLOBULIN)

NIKITENKO, A.A.; KOBRINSKIY, G.D.

Preparation of an active fraction with reduced anaphylactogenic properties from antirabies serum. Vop. virus. 9 no.3:315-320 My-Je '64. (MIRA 18:1)

1. Moskovskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok imeni I.I. Mechnikova.

NECHAYEVSKIY, G.S., inzh.; TESLER, P.A., kand.tekhn.nauk; KOBRINSKIY, G.S., inzh.

Cassette technology of making panels in small diameter autoclaves. Transp.stroi. 15 no.10:24-26 O '65. (MIRA 18:12)

1. Odesstransstroy (for Nechayevskiy). 2. Nauchno-issledovatel'skiy institut betona i zhelezobetona Gosstroya SSSR (for Kobrinskiy).

LEVIN, R.I.; LEVASHOV, M.P.; NECHAYEVSKIY, O.S.; KRIZHEVSKIY, V.M.; TESLER, P.A.; KOBRINSKIY, O.S.

Large-panel buildings of standardized autoclaved elements. Transp. stroi. 15 no.5:23-26 My '65. (MIRA 18:7)

1. Odesstransstroy (for Krizhevskiy). 2. Nauchno-issledovatel'skiy institut betona i zhelezobetona Gosstroya SSSR (for Kobrinskiy).

SAPELKIN, O.; KOBRINSKIY, I.

Of help to trackworkers ("Straightening out switch connections" by A.T. Kragel'. Reviewed by O. Sapelkin, I. Kobrinskii). Zhel. dor.transp.36 no.5:95 My '55. (MIRA 12:5)

1. Nachal'nik slushby puti Kalininskoy dorogi, Smolensk (for Sapelkin). 2. Glavnyy inzhener slushby puti, Smolensk (for Kobrinskiy).
(Railroads--Switches)
(Kragel', A.T.)

KOBRINSKIY, I.I. (st.Mga).

Change the techniques of track gauging. Put' i put.khoz.no.9:45 Ag '57. (MLRA 10:9)

(Railroads--Track)

DOLININ, O.F.; KOBRINSKIY, I.I., insh.; PALEYEV, N.A.; CHURILOV, N.F.

Leveling out track located on heaving soils. Put' i put. khoz. no.2: 6-7 F '58. (MIRA 11:3)

1. Starshiy dorozhnyy master Mginskoy distantsii, Oktyabr'skoy dorogi (for Dolinin). 2. Nachal'nik Mginskoy distantsii, Oktyabr'skoy dorogi (for Kobrinskiy). 3. Starshiy inzhener Mginskoy distantsii Oktyabr'skoy dorogi (for Paleyev). 4. Glavnyy inzhener sluzhby puti Mginskoy distantsii Oktyabr'skoy dorogi (for Churilov).
(Railroads--Track)

KOBRINSKIY, I.I., inzh.

Maintenance and repair of switch boxes. Put' i put. khoz. no.8:15-16 Ag '58. (MIRA 11:8)

1. Nachal'nik distantsii puti, stantsiya Mga, Oktyabr'skoy dorogi. (Railroads—Switches)

DOLININ, O.F.; KOBRINSKIY, I.I., insh.

Some remarks on switch boxes. Put' i put. khoz. no.2:30-31 F '59.
(MIRA 12:3)

1.Starshiy dorozhnyy master, st. Mga Oktybr'skoy dorogi (for Dolinin).

(Railroads--Switches)

KOBRINSKIY, I.I., insh.

Mechanizing track operations. Put' i put. khoz. 5 no. 1:6-8 Ja '61.
(MIRA 14:5)

1. Nachal'nik Mginskoy distantsii, Oktyabr'skoy dorogi.
(Railroads—Maintenance and repair)

KOBRINSKIY, Yu.I., inzh.

Simplified deflectometer. Put' i put.khoz. 5 no.2:35 F '61.
(MIRA 14:3)

1. Nachal'nik distantsii put 1, stantsiya Mga, Oktyabr'skoy dorogi.

(Railroads—Track) (Railroads—Equipment and supplies)

BUKANKOV, Ye.I.; KOMRINSKIY, L.S.

Manufacture of spike heels from compatible macromolecular compounds. Kozh.-obuv. prom. 7 no.7:25-26 Jl '65. (MIRA 18:8)

BUKANKOV, Ye.I.; KOBRINSKIY, L.S.; KRASNOV, B.Ya.; BRUK, M.B.

High heels for women's shoes made from polypropylene. Kozh.-obuv. prom. 7 no.5:28-32 My '65. (MIRA 18:8)

KOTELNIKOV, N. Ya

Novyy tip garmonicheskogo analizatora. M., vestn. metallopro-., 4 (1938), 54-58.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.
Markushevich, A. I.,
Rashevskiy, P. K.
Moscow-Leningrad, 1948

KOBRINSKIY, N.YE.

Methods and Instruments for Measuring Angular Velocities.

AN SSSR, (1941)

KOBRINSKIY, N.E.

Metody i pribory dlia izmereniia uskoreniĭ. Moskva, Izd-vo Akademii nauk Soiuza SSR, 1942, 80 p., illus.

"Nastoiashchaia monografiia iavliaetsia vtoroi chast'iu temy 'Metody i pribory izmereniia skorostei i uskoreniĭ.' "

Bibliography: p. 79-80.

Titel tr.: Methods and devices for measuring acceleration.

TJ1054.K6

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

KOBRINSKIY, N. Ye.

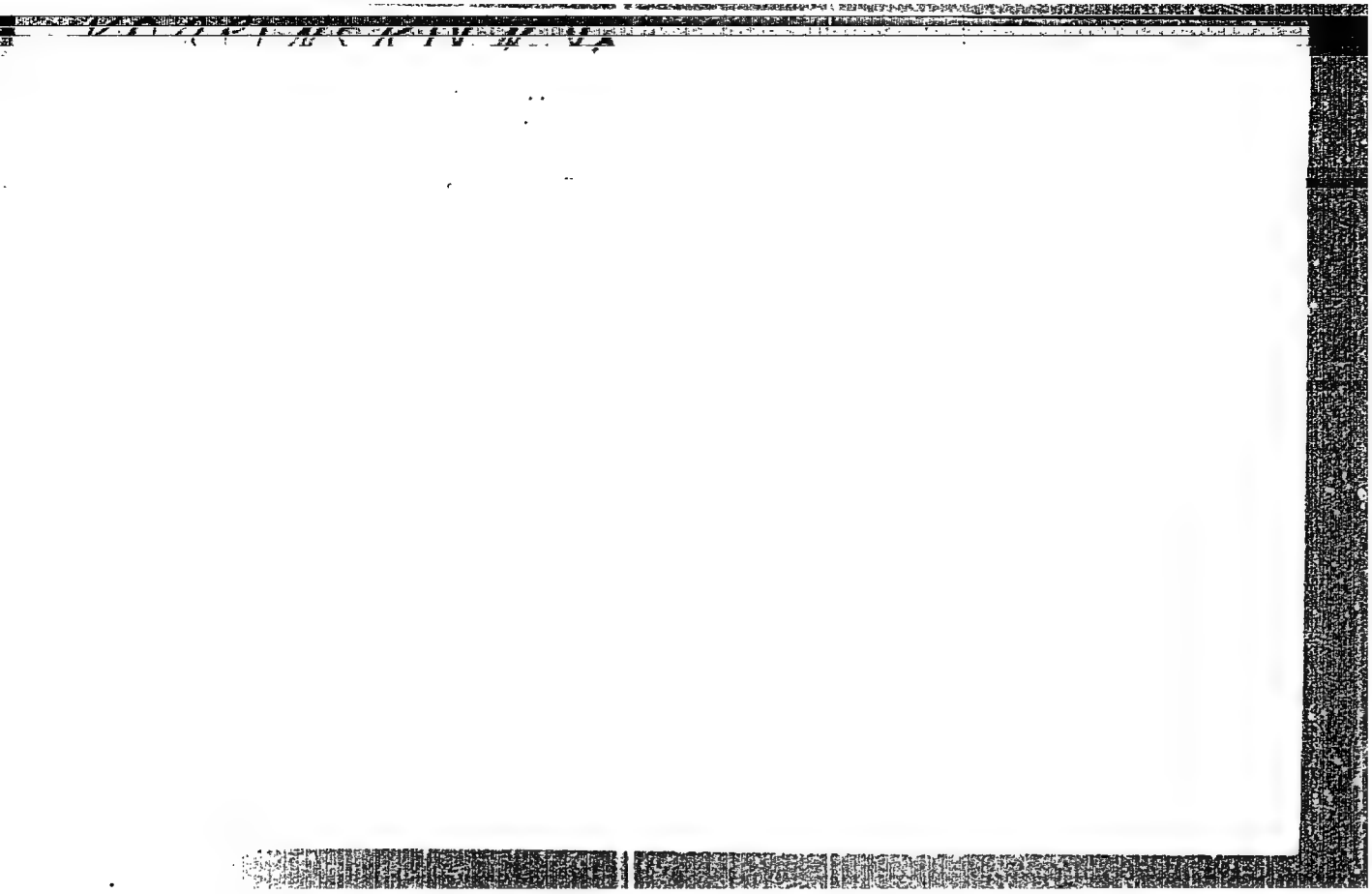
"Kinematic and Dynamic Errors in Plane Mechanisms." Is. Ak. Nauk SSSR, Otdel. Tekh. Nauk, No. 3, 1944

[redacted] Report U-1556, 14 Nov 1951.

KOBRINSKIY, N. Ye.

"Kinematic Errors in Plane Mechanisms with Low Couples Caused by Inaccuracy in Link Sizes." Iz. Ak. Nauk SSSR, Otdel. Tekh. Nauk, No. 6, 1944. Institute of Machine Studies, Academy of Sciences, USSR. Submitted 20 Mar 1944.

[redacted] Report U-1556, 14 Nov 1951.



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KOBINSKIY N. E.

PA 10755

USSR/Mathematics
Calculators

Aug/Sep 1946

"Present Status and Means of Developing the Calculation Technique," N. E. Kobinskiy, L. A. Lyusternik, 20 pp
"Vestnik Akademii Nauk SSSR" Vol XVI, No 8/9
Discusses role of calculation technique in development of contemporary science. Problems of applied mathematics and solution methods. Speeding up and automatization of calculation processes. Apparatus for carrying out mathematical operations and its accuracy. Apparatus for operations with discrete values. Includes formulae and diagrams.

10755

KOBRINSKIY, N. YE.

PA 52/49T5

Academy of Sciences - Mathematics
Engineering Sciences - Calculators Jan 49

At the Department of Technical Sciences, Academy of Sciences USSR, 2 pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 6

N. Ye Kobrinskiy and I. I. Artobolevskiy submitted reports on activities of the Inst of Precise Mech and Calculating Techniques. Institute has prepared a number of works for introduction and practical teaching, including electrical integrators, calculating tables, and methods to solve mathematical problems on analytical computing machines. Inst AN SSSR

52/49T5

Academy of Sciences - Mathematics (Contd) Jan 49

Gen I. A. Kuybyshev is prepared to introduce a new method and instrument for control of metallurgical processes.

52/49T5

KOBRINSKIY, N. Ye.

PHASE X TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 702 - X

BOOK

Author: KOBRINSKIY, N. YE. Call No.: AF653645

Full Title: MATHEMATICAL MACHINES OF CONTINUOUS OPERATION. FUNDAMENTALS OF CONSTRUCTION

Transliterated Title: Matematicheskiye mashiny nepreryvnogo deystviya. Osnovy ikh ustroystva.

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of Technical and Theoretical Literature

Date: 1954 No. pp.: 447 No. of copies: 7,000

Editorial Staff

Contributors: M. L. Bykhovskiy, I. M. Vitenberg, E. A., Gluzberg, Prof. V. N. Mil'shteyn, Ye. P. Novodvozskiy, Prof. G. M. Zhdanov, and D. N. Shakhsuvarov.

PURPOSE AND EVALUATION: This book is not a textbook for university students, but is rather intended for workers in research laboratories who use analog computer machines for solution of certain types of systems of ordinary and partial differential equations and of algebraic and transcendental equations. This book is written on the basis of new Russian, English and German

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Matematicheskiye mashiny nepreryvnogo deystviya. Osnovy ikh ustroystva. AID 702 - X

publications dealing with the construction and methods of operation of analog computing machines. It is more extensive, better presented, and represents more research than the standard American publication by the Engineering Research Associates, High-Speed Computing Devices (McGraw-Hill, 1950) which was translated into Russian in 1952.

TEXT DATA

Coverage: This book deals with many questions relating to the construction of mathematical machines of continuous operation, particularly those designed by Russian scientists like Prof. S. A. Gershkorin of Leningrad Polytechnical Institute, I.S. Brun and V. A. Trapeznikov, Members of the Academy of Sciences, USSR, and scientists like N. V. Korol'kov, B. A. Volynskiy, V.P.Lebedyev, V. V. Ushakov, A. A. Fel'dbaum, V. S. Luk'yanov, Yu.Yu. Barilevskiy, B. V. Rameyev, V. N. Ryazankin, P. G. Khomenko, S. K. Neslukhovskiy and others. It includes detailed instructions for the use of analog computer machines, which are based mainly on mathematical analysis, differential equations and calculus of variations. Digital computer machines are omitted. Many papers

2/4

Matematicheskiye mashiny nepreryvnogo deystviya. Osnovy ikh ustroystva. AID 702 - X

dealing with using machines for solution of mathematical problems written by Russian scientists such as Member of the Academy of Sciences of the USSR, A. N. Krylov (deceased), S. A. Lebedyev and M. G. Bruyevich, and Prof. L. A. Lyusternik, K. A. Semendyayev, L. V. Kantorovich, I. N. Yanzhul, I. Ya. Akushskiy, M. R. Gaburin, I. I. Eterman, K. A. Karpov and others, are used in this book.

Table of Contents

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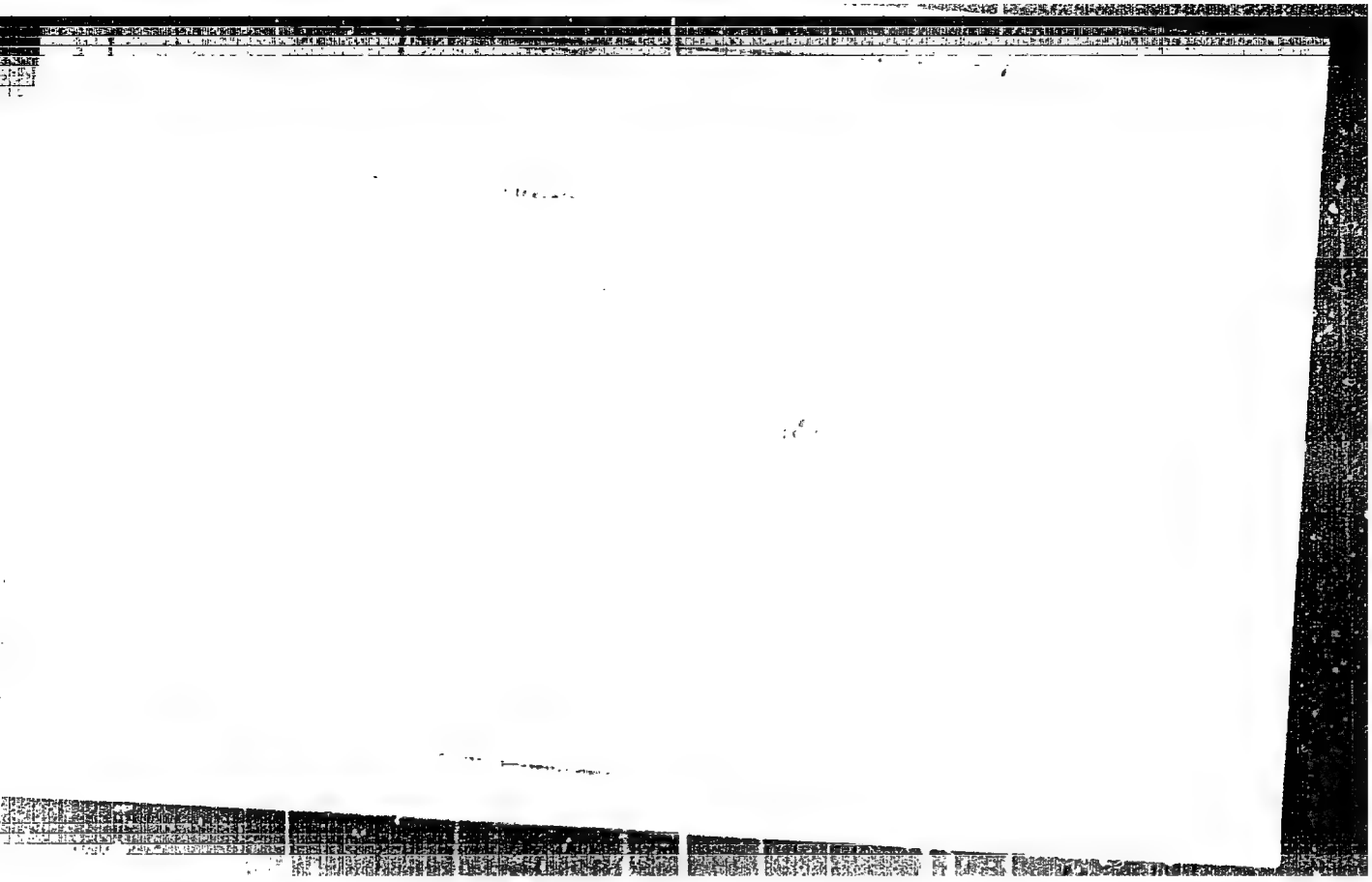
Matematicheskiye mashiny nepreryvnogo deystviya. Osnovy ikh ustroystva. AID 702 - X

No. of References: Total 84, 55 Russian (1904-1954)
Facilities: None

4/4

KOBRINSKIY, N. Ye. and TRAKHTENBROT, B. A.

THE DEVELOPMENT OF A GENERAL THEORY OF "LOGICAL NETS",
O Postroyenii Obshchey Teorii Logicheskikh Sety, 1956.



APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420001-2"

KOBRINSKIY, N.Ye., professor, doktor tekhnicheskikh nauk.

The machine selects. Nauka i shizn' 23 no.4:21-26 Ap '56.
(Electronic calculating machines) (MLRA 9:7)

STERMAN, Israil' Iseyevich; KOBRINSKIY, N.Ye., prof., retsenzent; SOLODOV, A.V., kand.tekhn.nauk, red.; KUCHEROVA, O.F., red. izd-va; EL'KIND, V.D., tekhn.red.

[Mathematical computers of continuous action] Matematicheskie mashiny nepreryvnogo deistviia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 234 p. (MIRA 11:2)
(Electronic calculating machines)

KOBRINSKIY, N. Ye.

"Use of Modern Computers for Economic Analysis," and (with B.A. Trakhtenbrot) "Construction of a General Theory of Logical Systems," papers given at the Conference of European Statisticans Meeting on Data-Processing Electronic Machines, Geneva, 21-24 February 1957

4036051

KOBRINSKIY, N. YE.

"Logical Networks" (9 November 1956).

Paper presented at the Seminars on Cybernetics at Moscow University during the 1956-57 school year.

Problemy Kibernetiki, No. 1, 1958

KOBRINSKIY, N. YE.

"High-Speed Computer for Economic Analysis" (24 May 1957).

paper presented at the Seminars on Cybernetics at Moscow University during the 1956-57 school year.

Problemy Kibernetiki, No. 1, 1958

GEL'FOND, A.; KARANDEYEV, K.; CHISTYAKOV, N.; SHUMILOVSKIY, N.; LEVIN, M.; YEMAKOV, V.; KOBRINSKIY, N.

V.M. Mil'shtein; obituary. Elektrichestvo no.4:94 Ap '58.
(Mil'shtein, Viktor Naumovich, d. 1958) (MIRA 11:5)

AUTHORS: Kobrinskiy, N., Professor, Pekelis, V. 29-3-7/25

TITLE: A Dispassionate Partner (Besstrastnyy partner)

PERIODICAL: Tekhnika Molodeshi, 1958, V. 26, Nr 3, pp. 10-12 (USSR).

ABSTRACT: The first chess-playing automaton was built by the Hungarian mechanic Farkash Kempelen in 1769 and made a triumphant sweep all round the world. It burnt, however, in a fire in Philadelphia and the whole humbug was exposed. The Spanish engineer Torres Kevedo built a real automaton in 1890. Yet this automaton won only with a specific opening of the game. Recently, the chess-amateurs were excited by a sensational news. A new machine was sitting at the chess-board, viz. the electronic calculating-machine. It is known, in the age of progress - that the brains of a man are the backbone of any machine, no matter how clever it is. With every game, even the most simple one, opposing interests meet and the adversary tries to exploit to his own advantage the mistakes and errors committed by his antagonist.
Mathematic tried to disclose the secret of the complicated competition between reasonable beings and to determine its rules. The mathematicians Neyman, Gold, and others succeeded approximately 30

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years ago in establishing the bases of the mathematical theory of playing. This is of great fundamental importance and of practical application in economics, strategy and other fields. In the theory of playing it is proved that the issue of a game of chess depends on both the opening and the selected strategy. Our attachment to chess, however, is based on the very fact that we do not know the mathematical solution of this game. The Belgian mathematician M. Kraychik tried to calculate, at least approximately, the possible number of variations. This number amounts to 2.10^{123}. The chess-amateurs must not get excited: if the whole population of the world would continuously play chess and make a move each second, not less than 10^{100} centuries would be necessary for playing the whole lot of variations. The game of the automaton is based on a regulating system permitting to make in every situation the better or the correct move. But there are also games the issue of which depends merely on a chance, e. g. roulette and lotto. In this case both men and machine must reply at random. Concluding, we want to mention a game in which the machine - what is amazing - proved to be the stronger adversary. This game is based upon a random misleading of the partner in which case the chances to win are fifty-fifty. The machine, however, discovered unconscious rules governing the questioning by men, and won. What is the purpose of

A Dispassionate Partner 29-3-7/25

all this? Is there any importance with respect to economy or sport? It may be assumed with reason that men will never seriously compete with machinery. Just as no competition is arranged between men and machine. Yet with testing the electronic calculating machine in playing, we discover new unexpected possibilities which most likely were not imagined by their inventors.
There are 3 figures.

AVAILABLE: Library of Congress.

1. Mathematical computers - Applications 2. Chess playing machines - USSR

Card 3/3

28(2) PHASE I BOOK EXPLOITATION SOV/2616

Kobrinskiy, Natan Yefimovich, and Viktor Davydovich Pekelis

Bystreye mysli (Faster Than Thought) [Moscow] Izd-vo TsK VLKSM "Molodaya gvardiya", 1959. 388 p. 90,000 copies printed.

Ed.: V. Fedchenko; Tech. Ed.: A. Kovalev.

PURPOSE: This book is intended for the general reader with some education but without a mathematical background.

COVERAGE: The book contains a discussion of the computer, its fundamental principles, and some of its applications, written in popular style and humorously illustrated. The authors discuss the history of counting and number systems and the development of modern computers from the time of primitive computing devices like the abacus. They also discuss the logic, basic components, and fantastic speeds of present-day computers. Advantages and disadvantages of computers are discussed. No personalities are mentioned. There are no references.

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Faster Than Thought SOV/2616

A MACHINE COMPUTES

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Faster Than Thought SOV/2616

Man and the Machine

AVAILABLE: Library of Congress

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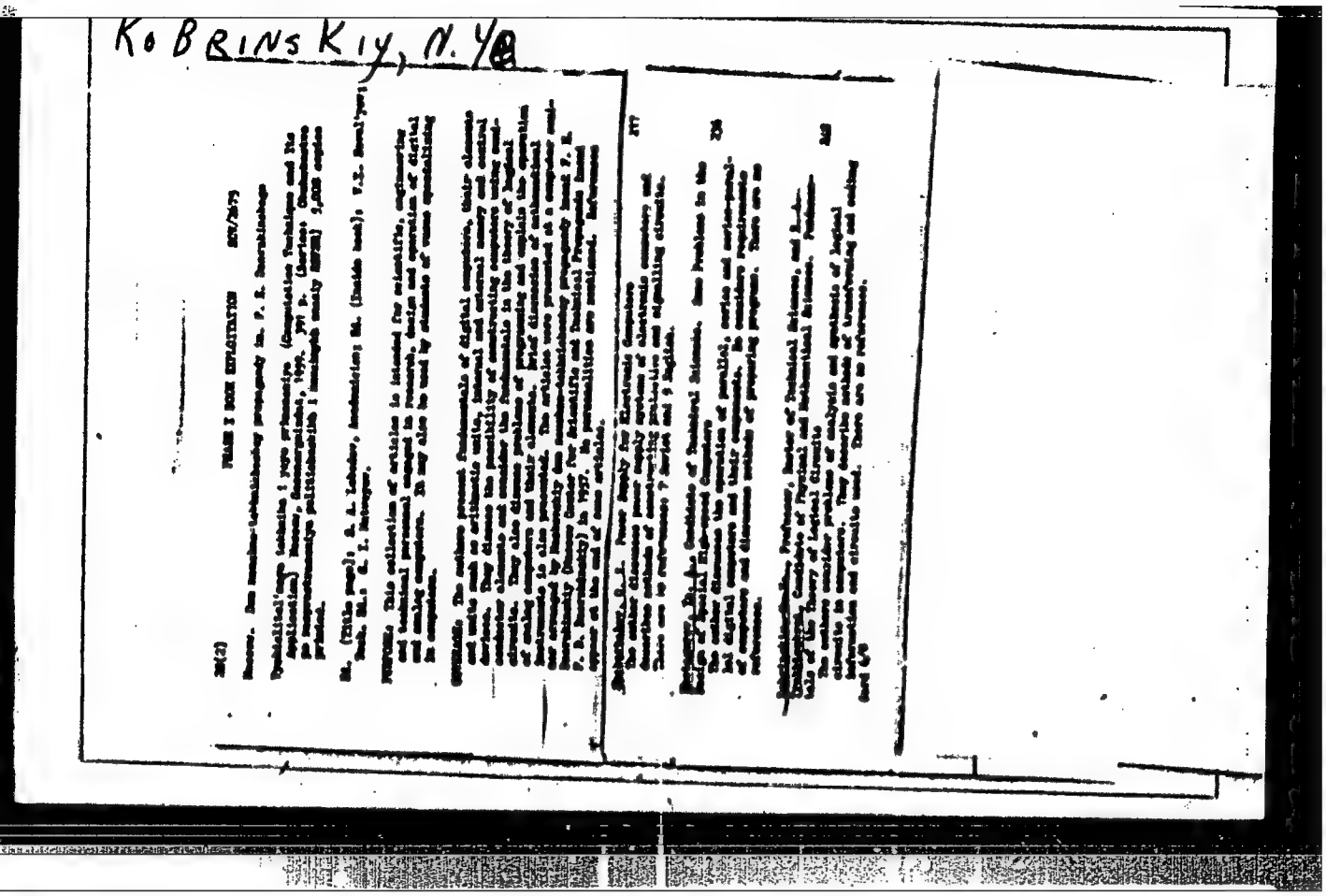
11-25-59



KOBRINSKIY, N. YE. and PEKELIS, V. D.

Bystreye mysli [Faster Than Thought], Publishing House of the Young Guard, 1959, 389 pages

KOBRINSKIY, N.

Mechanization of economic calculations with the aid of electronic-calculating machines. Vop. ekon. no.7:34-43 Jl '59.
(MIRA 12:11)

(Machine accounting)

28(2) SOV/25-59-10-6/48

AUTHOR: Kobrinskiy, N.Ye., Professor, Doctor of Technical Sciences

TITLE: The Electronic Computer Solves the Problem

PERIODICAL: Nauka i zhizn', 1959, Nr 10, pp 17-22 (USSR)

ABSTRACT: The article gives a survey on various types of computers, their use in industrial planning, in the population's supply and in book-keeping. The author reports on the historical development of computing machines and states that nowadays, more than 500 types of keyboard counting machines are being manufactured, beginning from the most simple adding machine up to the complicated machines widely used for carrying out economic accounts. In the Soviet Union, more than 3,500 computing stations and offices have been established which are equipped with keyboard computers and perforated computers. The author gives some examples of the application of computers in

Card 1/4

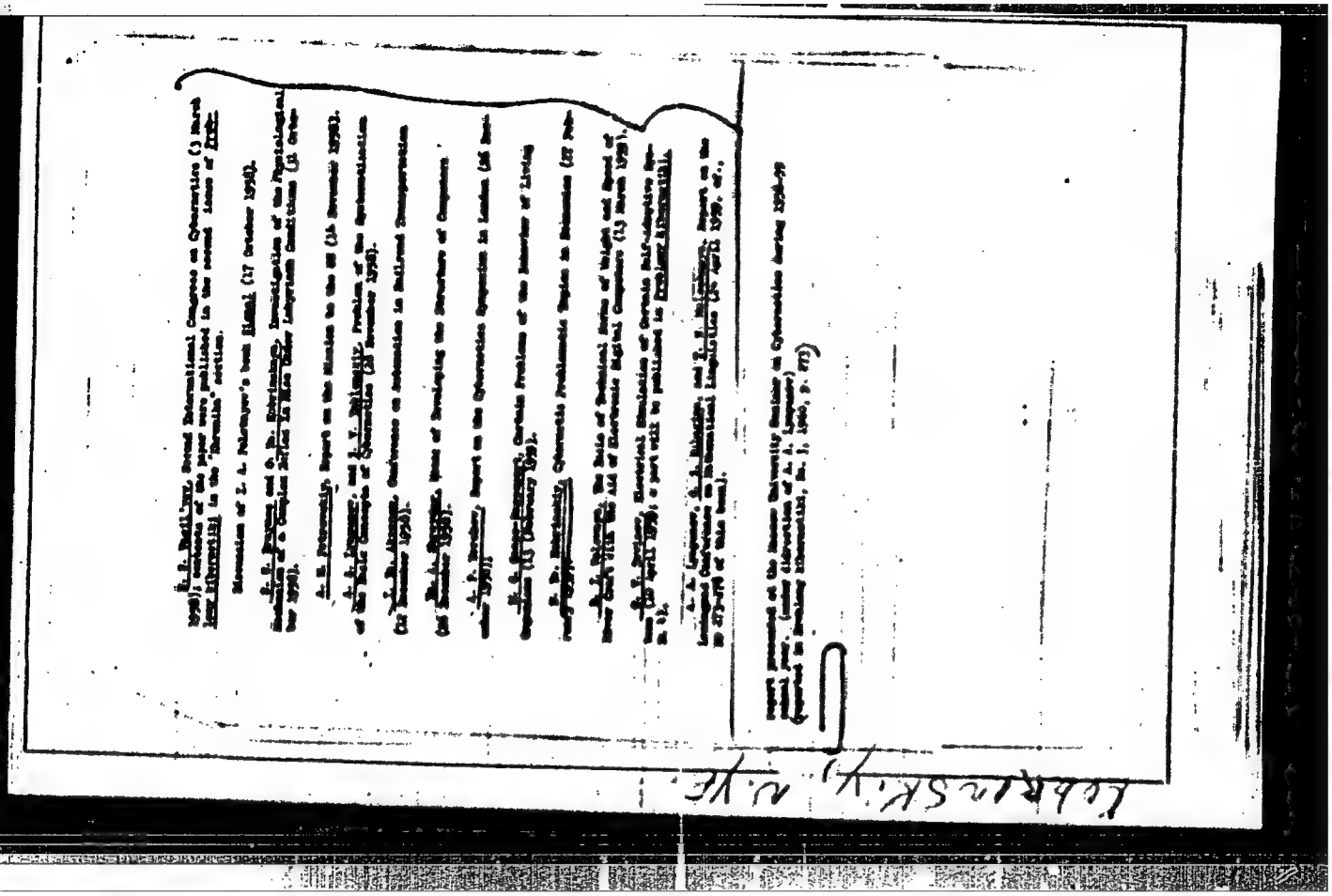
The Electronic Computer Solves the Problem

automobile industry planning and in national economy. However, the keyboard and perforated computers do not cope with hundreds of millions of computing operations for preparing the balance of production and consumption. For this purpose, electronic automatic computers have been developed which solve the most complicated problems in a short time. Computers performing 10 - 20,000 operations per second need 115-200 hours for computing the interrelationships embracing 800 various production units. The Pervyy gosudarstvennyy podshipnikovyy zavod (First State Bearing Plant) has to work out about 400,000 orders monthly, containing more than 25 million figures and to fill out more than 100 million short lines in documents. Investigations carried out in the Soviet Union have shown that the cost of accounts performed with the aid of electronic machines, is 10-15 times lower compared with the cost of these works carried out on

The Electronic Computer Solves the Problem

perforated counting machines. At enterprises with 15,-20,000 workers, the use of electronic computers saves about 1 million rubles annually only for the maintenance of the book-keeping accounting apparatus. Electronic machines are also widely used in the system of the Gosbank of the Soviet Union. For the solution of many economic planning problems, universal electronic computers can be used, e.g. the "BESM" (High-speed electronic computer), "Strela" and "Ural" type computers. They are intended for solving the various mathematical problems including problems which arise when accounting the links between various branches. For economic accounts, special computers with a very high productivity are being developed. The "electronic economist" will be able to account wages for 15-20,000 workers within 50-60 hours and to determine the prime cost of a complicated article and to compile the tech-

Card 3/4



KOBRINSKIY, Natan Yefimovich; TRAKHTENBROT, Boris Avraamovich; BIKYUKOV, D.V., red.; GURASHOVA, N.Ya., tekhn. red.

[Introduction to the theory of finite automata] Vvedenie v teoriiu konechnykh avtomatov. Moskva, Gos.izd-vo fiziko-matem. lit-ry, 1962. 404 p. (MIRA 15:5)
(Automatic control) (Electronic calculating machines)
(Electronic digital computers)

ANISIMOV, B.V.; CHETVERIKOV, V.N.; KOGAN, M.Ye., doktor tekhn. nauk, prof., retsenzent; TAKHTANOV, G.I., kand. tekhn. nauk, retsenzent; DOBROGURSKIY, S.O., doktor tekhn. nauk, red.; YELISEYEV, M.S., red. izd-va; EL'KIND, V.D., tekhn. red.

[Fundamentals of the theory and design of digital computers] Osnovy teorii i proektirovaniia tsifrovykh vychislitel'nykh mashin. Moskva, Mashgiz, 1962. 431 p. (MIRA 15:10)
(Electronic digital computers)

KOBRINSKIY, Natan Yefimovich; PEKELIS, Viktor Davidovich; LIVANOV, A., red.; EGOROVA, I., tekhn. red.

[Faster than thought] Bystree mysli. Moskva, Molodaia gvardiia, 1963. 469 p. (MIRA 16:11)
(Cybernetics)

ANISIMOV, B.V.; CHEVERIKOV, V.N.; KOBRINSKIY, N.Ye., doktor tekhn. nauk, prof., retsenzent; SMOLOV, V.B., doktor tekhn. nauk prof., retsenzent

[Principles of the theory and design of digital computers] Osnovy teorii i proektirovaniia tsifrovykh vychislitel'nykh mashin. 2., ispr. i dop. izd. Moskva, Mashinostroenie, 1965. 483 p. (MIRA 18:3)

MOGILEVICH, S.; KOBRINSKIY, S.

Fiber made from wool wastes. Prom.koop.no.8:28-29 Ag '55. (MLRA 9:1)

1.Tekhnicheskiy rukoveditel' arteli imeni 30-letiya Moskovskogo Soveta (for Mogilevich).2.Nachal'nik tsekha vtorichnogo syr'ya (for Kobrinskiy)

(Wool industry)

ALEKSANDROV, P.; BUGAYEV, G.; KOMARINSKIY, S.

Conference in factories. NTO 2 no.7:58 Jl '60.
(MIRA 13:7)

1. Uchenyy sekretar' Rostovskogo oblastnogo pravleniya Nauchno-tekhnicheskogo obshchestva mashproma (for Aleksandrov).
2. Starshiy inzhener golovnogo Spetsial'nogo konstruktorskogo byuro (for Bugayev).
(Machinery industry—Technological innovations)

ACHKASOV, N.I.; KOBRINSKIY, V.I.

Improving the quality of maintenance and repair. Put' i put.khoz. 9 no.6:13-15 '65. (MIRA 18:6)

1. Nachal'nik Opytnoy putevoy mashinnoy stantsii No.1, stantsiya Reshetnikovo, Oktyabr'skoy dorogi (for Achkasov). 2. Glavnyy inzh. Opytnoy putevoy mashinnoy stantsii No.1, stantsiya Reshetnikovo, Oktyabr'skoy dorogi (for Kobrinskiy).

L 25713-66 EWT(1) RO

ACC NR: AP6005886 (A) SOURCE CODE: UR/0352/65/000/010/0030/0031

AUTHOR: Kobrits, G. (Senior engineer in fertilizer and poison-chemical commerce)

ORG: All-Union Association "Soyuzsel'khoztekhnika" (Vsesoyuznoye ob"yedineniye "Soyuzsel'khoztekhnika")

TITLE: Work with poisons is harmless if protected

SOURCE: Kolkhozno-sovkhoznoye proizvodstvo, no. 10, 1965, 30-31

TOPIC TAGS: agriculture, chemical protective clothing, gas mask

ABSTRACT: The protection of agricultural workers dealing with poisonous and toxic materials is discussed. Smoking, eating, drinking are allowed only in rooms located at least 100 m away from the area where chemicals are used. Before eating, the protective clothing must be removed and hands and face washed. Only men 18 to 55 years old and women 18 to 50 years old are admitted to work. Special dust-tight cotton clothing, "KR" gauntlets, rubber shoes, respirators of U-2K and "Lepestok-200" (ShB-1) types, face guards with goggles of PO-3 and PO-1 types were prescribed for work with DDT, TMTD-50 and other disinfectants. Acid-proof clothing, "374" rubber gloves, PO-3 goggles and F-46K respirators

Card 1/2

L 25713-66

ACC NR: AP6005886

3

are to be used in handling polychlorpinene, chlorophos, metaphos, etc. In conducting fumigation, special gas-masks of industrial type or of GP-4U civil type must be employed. It was mentioned that a new respirator of RU-60 type will be produced in 1966. The handling and preservation of respirators was briefly discussed and the orderly use of clothing, gloves, goggles and other protective articles was explained. The duration of the workday must not exceed 6 hours in case of poison-bearing products and 4 hours when dealing with high-toxic chemicals. Orig. art. has: 2 photos showing the U-2K and R-60 respirators.

SUB CODE: 06,02 / SUBM DATE: None / ORIG REF: 000 / OTH REF: 000

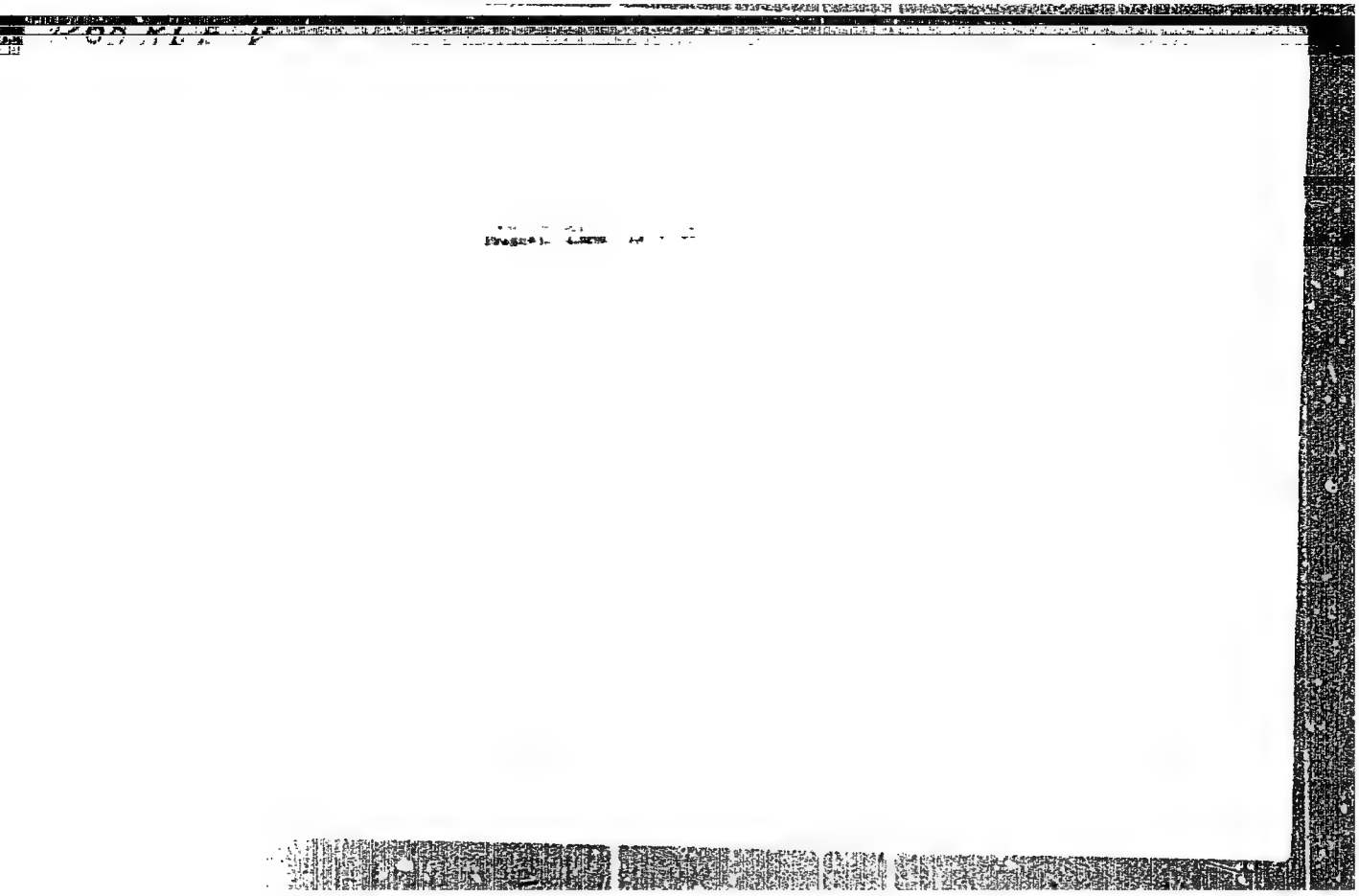
Card 2/2

ACC NR: AP6031981

mask with an adjustable elastic headband and plastic frame containing a disposable polymer-fiber filter. It has vents for inhalation and exhalation, the latter serving also to expel excess moisture. All parts in the mask are replaceable. This mask is also light in weight, has resistance of not more than 3.5 mm (H_2O) to respiration, and is 99.9% effective in removing fine dust from the air. It is recommended for mass use; the filter lasts for 30 days, on the average, and the respirator for one year. The third half-mask, the U-2K respirator, includes vents for inhalation and exhalation, a headband, and nosepiece. The exterior of the mask is of porous polyurethane and the interior, of thin polyethylene film. These two layers are separated by an effective polymer-fiber filter. Excess moisture within the mask is eliminated through the exhalation vent. The headband is elastic and adjustable. This mask has a life expectancy of 30 days, depending on conditions, has not more than 6 mm (H_2O) resistance to respiration, and is 99.9% effective. These respirators protect against dust only. The RU-60 respirator (not described) is suggested for use with mercury-containing compounds. The importance of proper mask fit is stressed; the U-2K and F-62Sh devices both came in three sizes. Cleaning, proper use, and replacement filters and parts for all three are discussed. [WA-50; CBE No. 12]

SUB CODE: 06/ SUBM DATE: none/

Card 2/2



KOBRLE, V.

Czechoslovakia/Analytical Chemistry - General Questions, G-1

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61799

Author: Kobrle, V., Zahradnik, R.

Institution: Mene Ustav hyg. práce., Prague

Title: Partition Paper Chromatography of Higher Fatty Acids. II. Separation of Unsaturated Fatty Acids

Original Periodical: Rozdelovaci chromatografie vyssich mastnych kyselin na papire. II. Deleni nenasycenych mastnych kyselin, Chem. listy, 1954, 48, No 11, 1703-1705; Czech

Abstract: To study the separation of unsaturated and saturated acids by the method of partition paper chromatography vicinal hydroxy- and halogen derivatives of unsaturated acids were prepared and investigated. Values of Rf of dihydroxy-acids differ little from values for saturated acids. Dihalogen derivatives (prepared by treatment with BrJ) have Rf values lower by 0.15-0.28 units than those of unsaturated acids. Listed are Rf values for unsaturated acids

Card 1/2

KOBRLE, [redacted]

CZECHOSLOVAKIA/Analysis of Organic Substances. G-3

Abs Jour : Referat Zhur - Khimiya, No 6, 1957, 19704

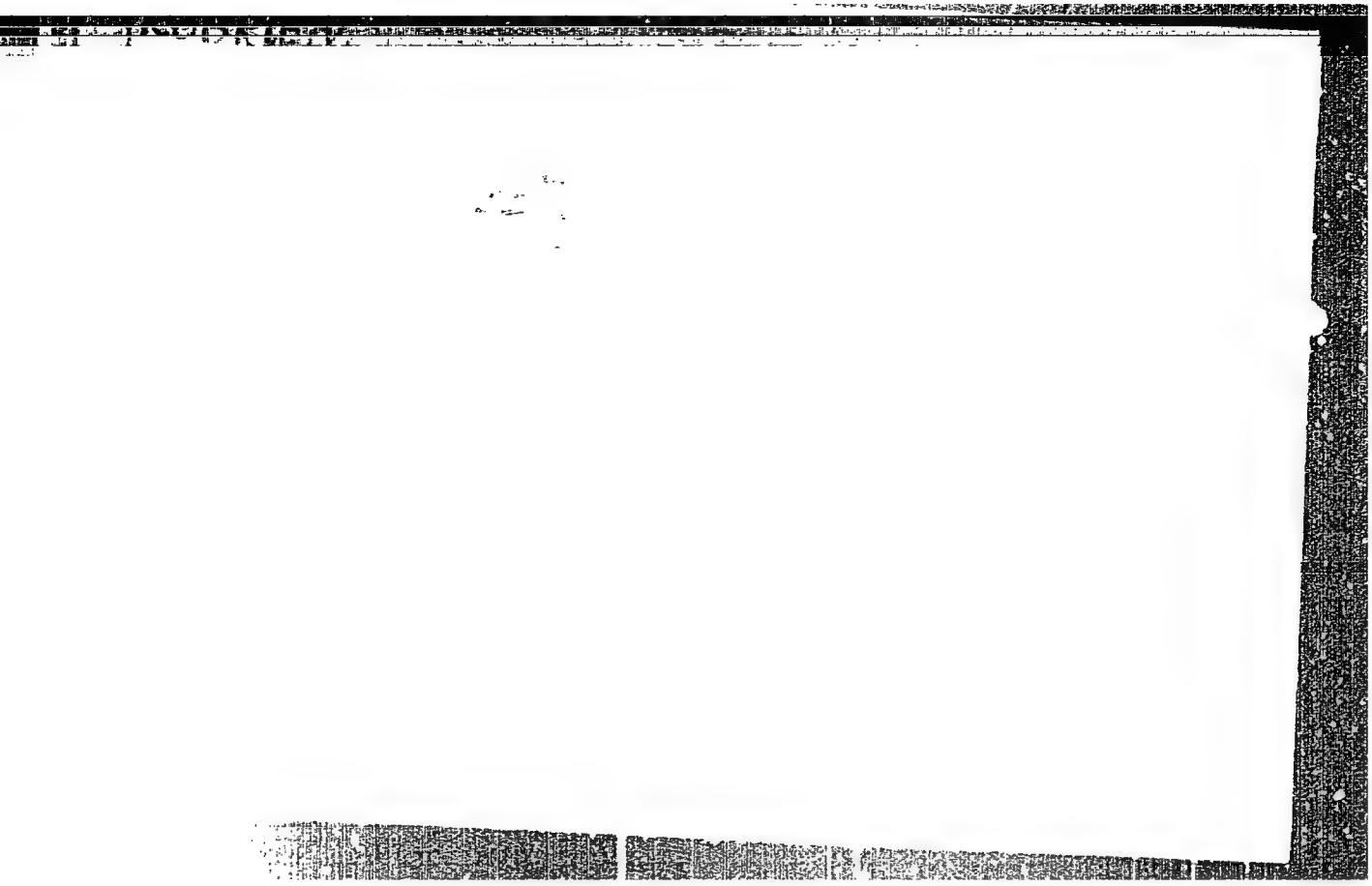
Author : Kobrle, Zagradnik.
Inst :
Title : Distributive Chromatography on Paper of Higher Aliphatic Acids.

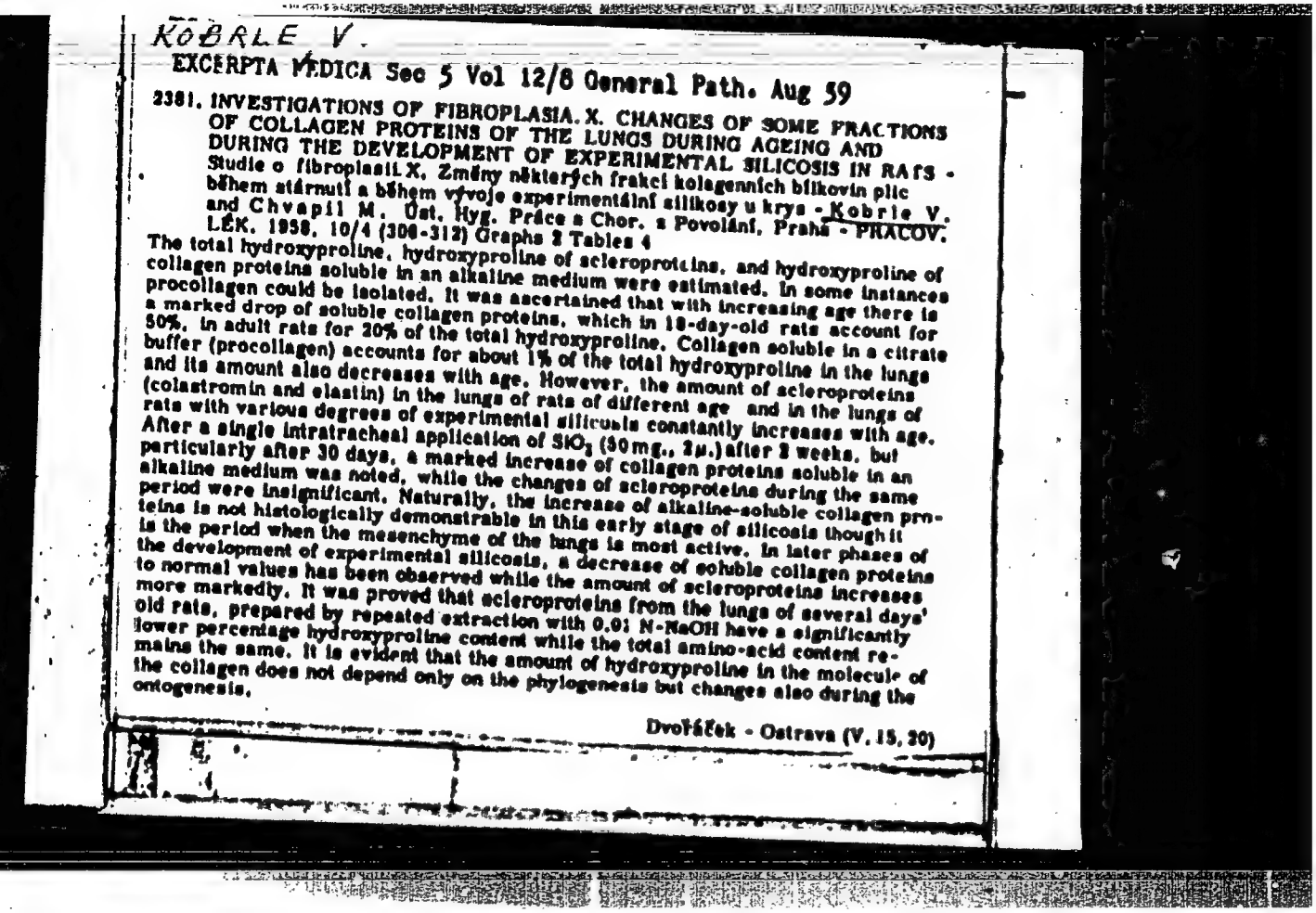
Orig Pub : Sb. chekhosl. khim. rabot, 1955, 20, No 1, 262-264

Abstract : See RZhKhim, 1956, 58490, 61799.

Card 1/1

- 20 -





KOBRLE V.

EXCERPTA MEDICA Sec 5 Vol 12/8 General Path. Aug 59

2381. INVESTIGATIONS OF FIBROPLASIA. X. CHANGES OF SOME FRACTIONS OF COLLAGEN PROTEINS OF THE LUNGS DURING AGEING AND DURING THE DEVELOPMENT OF EXPERIMENTAL SILICOSIS IN RATS - Studie o fibroplasii X. Změny některých frakcí kolagenních bílkovin plic během stárnutí a během vývoje experimentální silikosy u krys - Kobrle V. and Chvapil M. Ust. Hyg. Práce a Chor. s Povolání, Praha - PRACOV. LÉK. 1958, 10/4 (308-312) Graphs 2 Tables 4

The total hydroxyproline, hydroxyproline of scleroproteins, and hydroxyproline of collagen proteins soluble in an alkaline medium were estimated. In some instances procollagen could be isolated. It was ascertained that with increasing age there is a marked drop of soluble collagen proteins, which in 10-day-old rats account for 50%, in adult rats for 20% of the total hydroxyproline. Collagen soluble in a citrate buffer (procollagen) accounts for about 1% of the total hydroxyproline in the lungs and its amount also decreases with age. However, the amount of scleroproteins (colastromin and elastin) in the lungs of rats of different age and in the lungs of rats with various degrees of experimental silicosis constantly increases with age. After a single intratracheal application of SiO_2 (50 mg., 2 μ.) after 2 weeks, but particularly after 30 days, a marked increase of collagen proteins soluble in an alkaline medium was noted, while the changes of scleroproteins during the same period were insignificant. Naturally, the increase of alkaline-soluble collagen proteins is not histologically demonstrable in this early stage of silicosis though it is the period when the mesenchyme of the lungs is most active. In later phases of the development of experimental silicosis, a decrease of soluble collagen proteins to normal values has been observed while the amount of scleroproteins increases more markedly. It was proved that scleroproteins from the lungs of several days' old rats, prepared by repeated extraction with 0.01 N-NaOH have a significantly lower percentage hydroxyproline content while the total amino-acid content remains the same. It is evident that the amount of hydroxyproline in the molecule of the collagen does not depend only on the phylogenesis but changes also during the ontogenesis.

Dvořáček - Ostrava (V. 15, 30)

Kobrle, V.

CZECHOSLOVAKIA/Analytical Chemistry. Analysis of Organic Substances. E

Abs Jour: Ref Zhur-Khim., No 9, 1959, 31113.

Author : Zahradnik, R., Kobrle, V.
Inst :
Title : Interaction of Amino Acids with Carbon Disulfide. V. Paper Chromatography and Iontophoresis of Dithiocarbamino Carboxylic Acids.

Orig Pub: Collect. czechosl. chem. commun. 1958, 23, No 8, 1585-1587.

Abstract: No abstract.

Card : 1/1

KOHRLE, V.; CHVAPIL, M.

The amount of untrafiltrable and collagen-bound hydroxyproline in different organs of the rat during aging. Physiol. bohemoslov. 11 no.3: 243-248 '62.

1. Institute of Industrial Hygiene and Occupational Diseases, Prague.

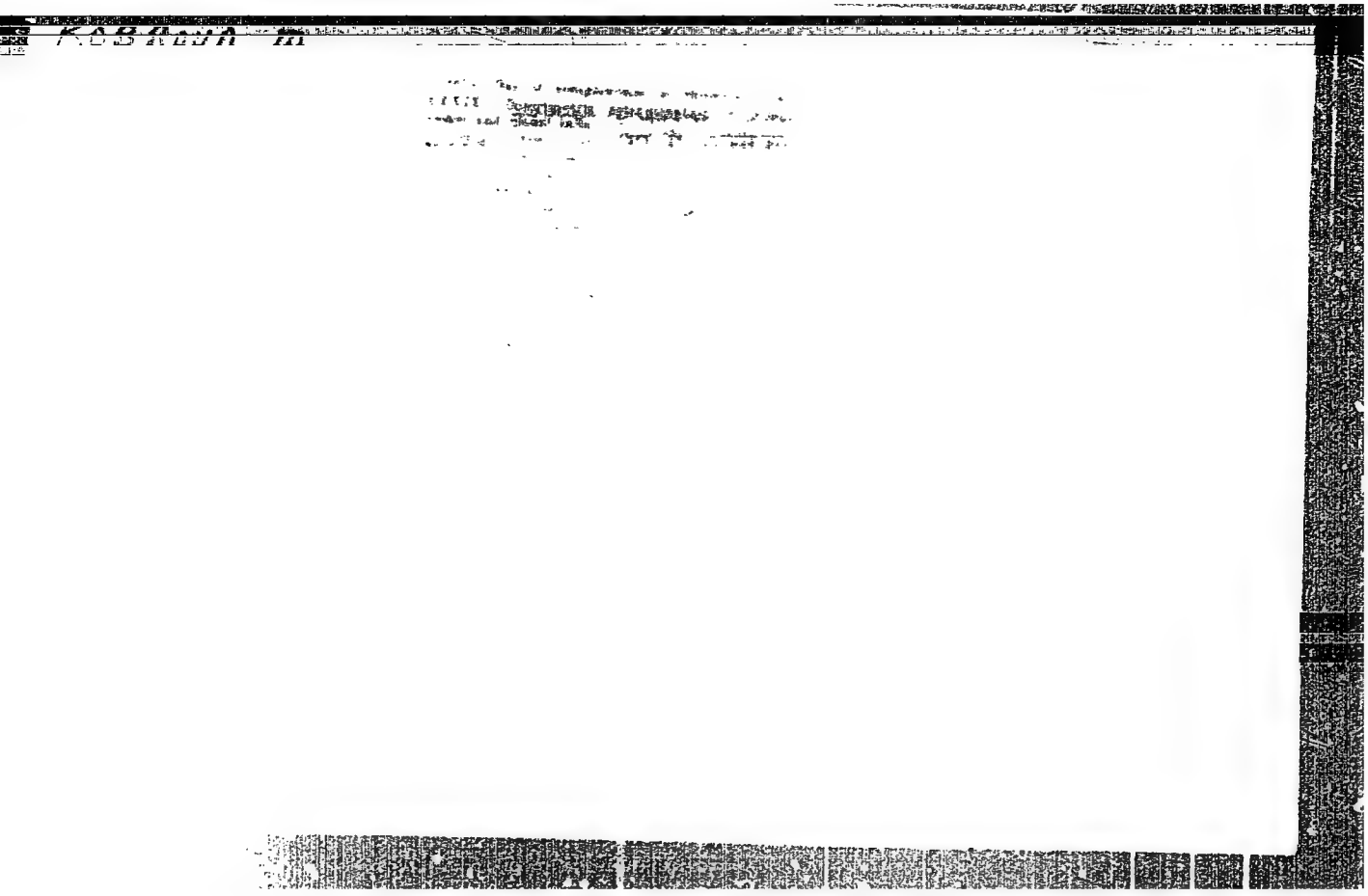
(PROLINE chemistry) (COLLAGEN metabolism)
(AGING)

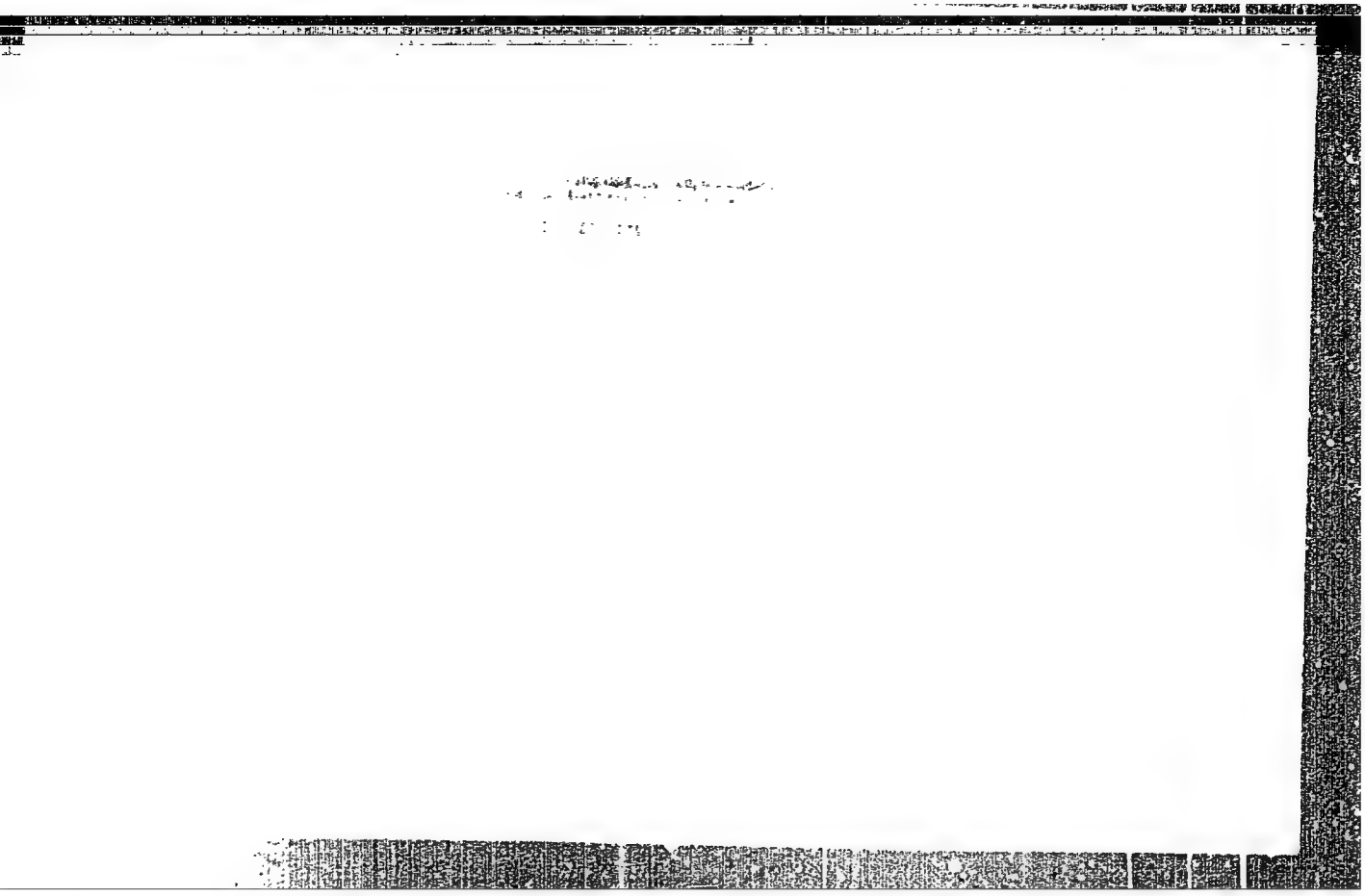
CHVAPIL, M.; KOEHLE, V.; CHUCHALOVA, B.

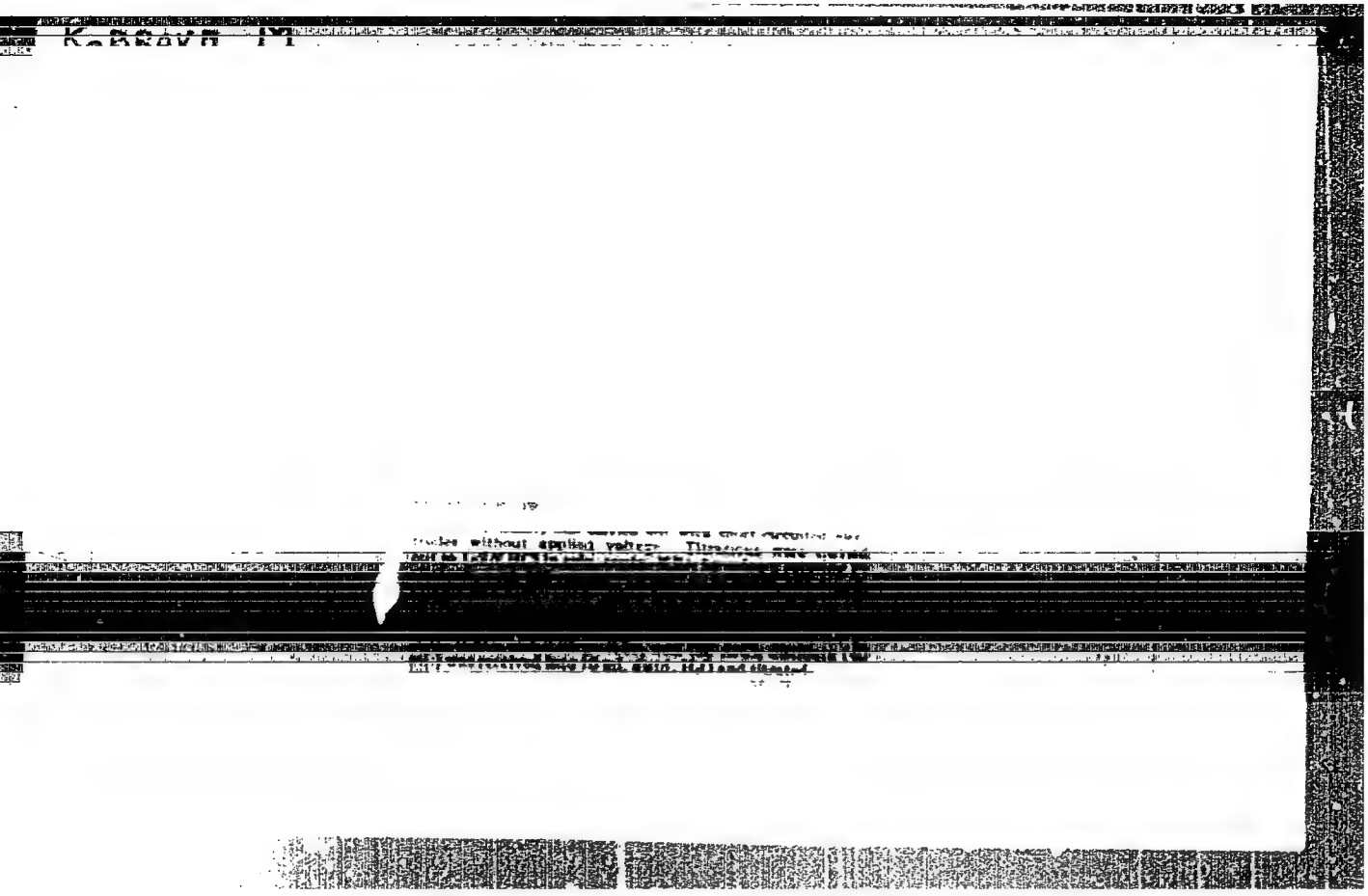
Ultrafiltrable hydroxyproline in the blood serum as the index of the degree of collagen metabolism. Prac. lek. 14 no.2:84-87 Mr '62.

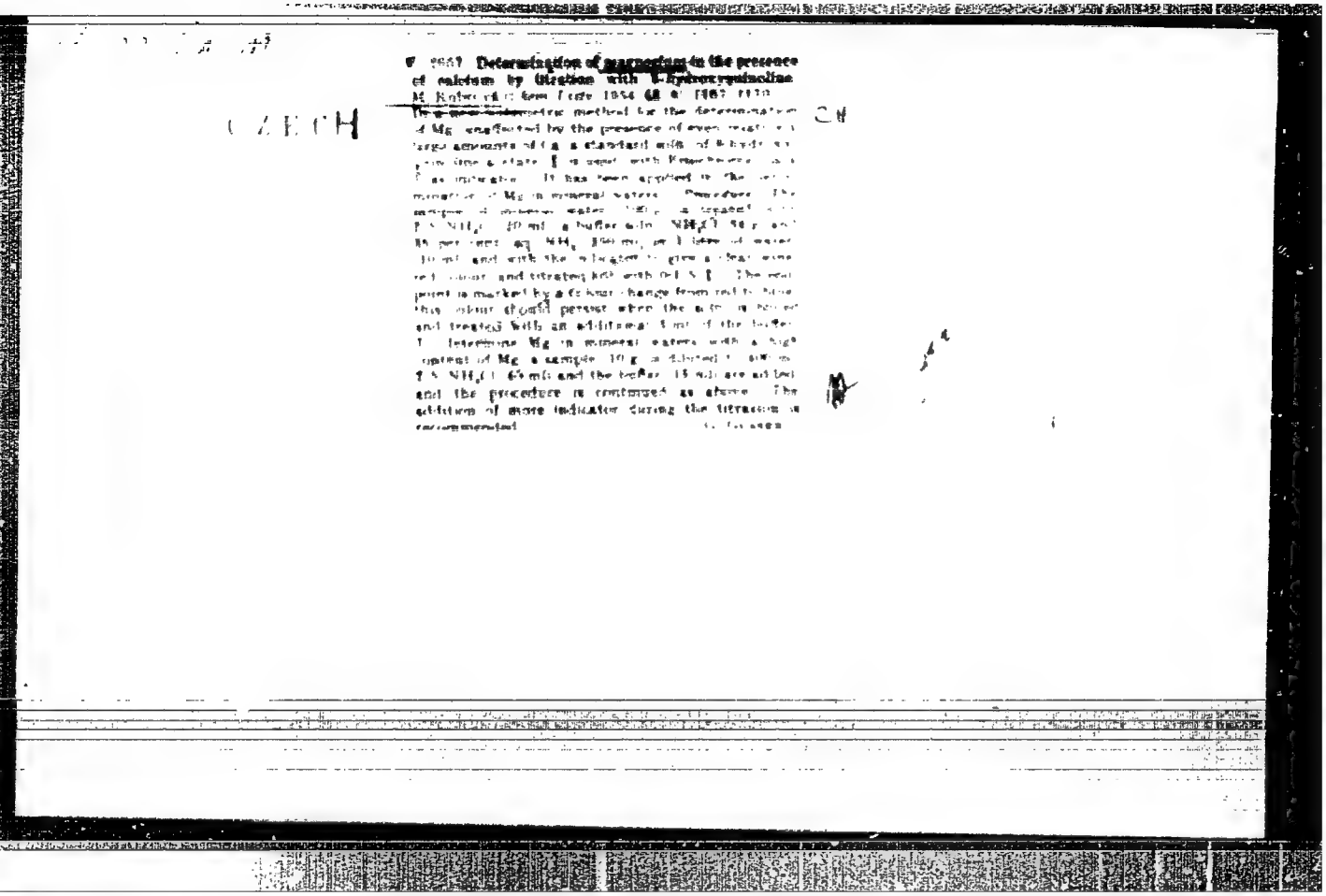
1. Ustav hygieny prace a chorob z povolani v Praze, reditel prof. J. Teisinger.

(COLLAGEN metab) (PROLINE rel cpds)





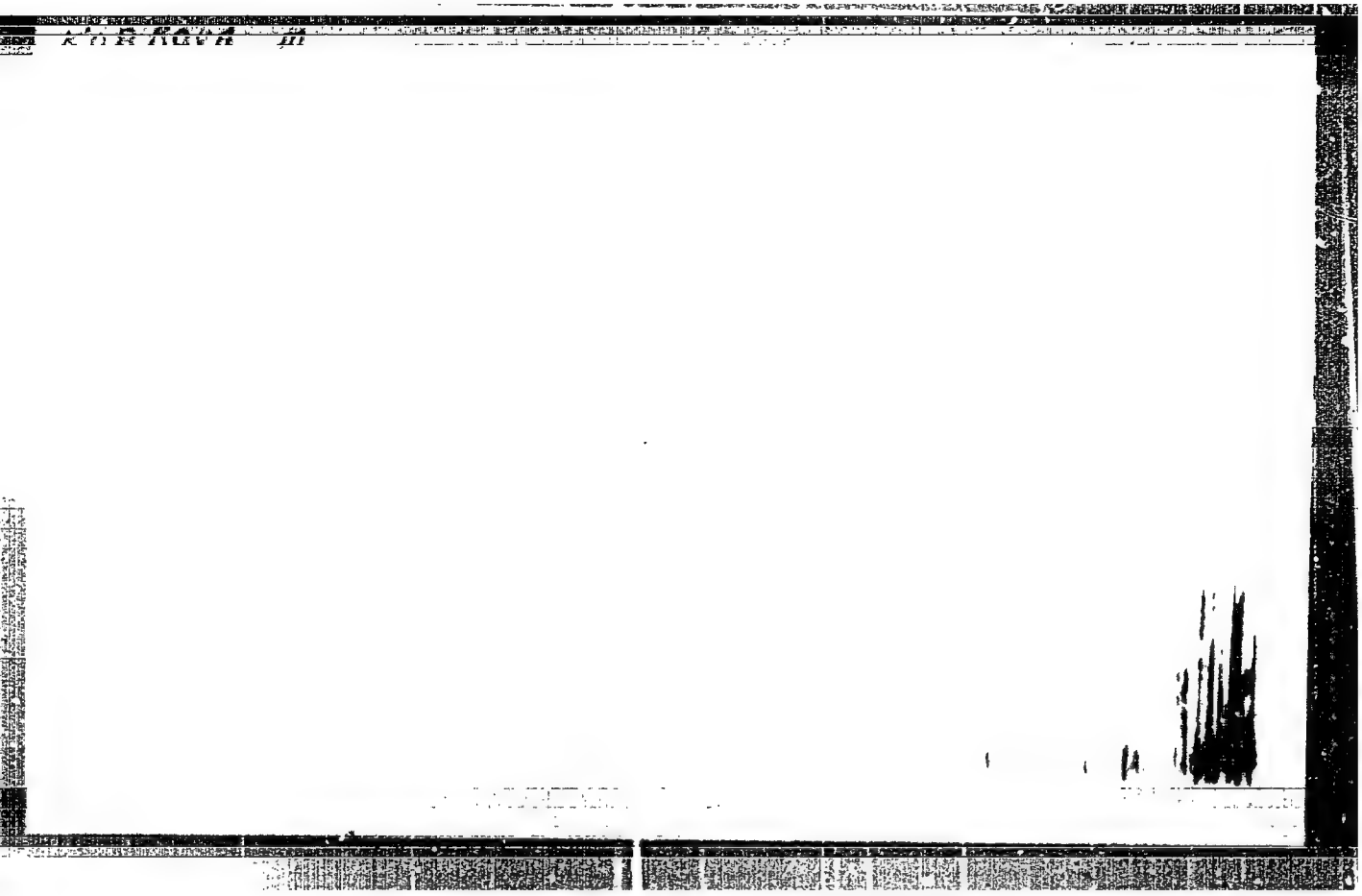




Determination of magnesium in the presence of calcium by titration with 8-hydroxyquinoline

M. Kolthoff and Sun Tzze 1954 [illegible]

CZECH



KOBROVA, M.

3

Determination of ... in the presence of ... with 8-quinolinol. M. Kobrová (Reiterforschungsinst., Prague). *Collection ... Chem. Commun.* 10 No. 1, 17-20(1938)(in German).—See *C.A.* 49, 1319*c*.
Niels C. Nielsen

MC MGT

KOBROVA, M.

CZECHOSLOVAKIA/Cosmochemistry, Geochemistry, Hydrochemistry D

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, No 7494

Author : M. Kobrova
Inst : Not Given
Title : Classification and Chemical Analysis of Mineral Water from the Hole "Si" in Libverda

Orig Pub : Fysiatr. vest., 1957, 35, No 3, 160-161

Abstract : A brief report on the properties and composition of water from a hole 65 m deep. Output 43 thousand liters, temperature 10°, density (at 20°) 1.0013, reaction feebly acid, pH 5.8. Composition (in mg/l): Li traces, Na 53.37, K 13.27, Mg 90.96, Ca 130.2, Sr 1.419, Mn 0.049, Fe 23.84, total of cations 317.6, Cl 8.78, SO_4 10.38, HPO_4 0.483, $HAsO_4$ 0.625, HCO_3 1050, anions total 1070, H_2SiO_3 92.23.

Card : 1/1

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [illegible]

Affiliation: Balneology Research Institute /Vyzkumny ustav balneologicky/ Director /Reditel/ Prof K. PREROVSKY; Prague

Source: Prague, Fysiatricky Vestnik, Vol 39, No 5, Oct 1961; pp 265-272

"Colorimetric Determination of Rubidium and Cesium in Mineral Waters"

[illegible]

KOBRUS, J. (Prerov)

Budapest Industrial Fair 1962. Jemna mech opt 7 no.9:295-296 S '62.

KOBRYK, Mieczyslaw

Some notes on the factory fund. Praca zabezp spol 4 no.2:11-14 '62.

KOBRYK, Mieczyslaw

Distribution principles for the factory labor fund in the light of the resolutions of the 16th Plenum of the Central Council of Trade Unions. Praca zabezp spol 5[i.e.4] no.6:48-50 Je '62.

CERNACEK,J.; KOBSA,K.; PODIVINSKY,F.

Use of paired activity of the hemispheres in rehabilitation of hemiplegics. Cesk. neurol. 27 no.1:17-23 Ja'64.

1. Oddelenie klinickej elektrofyziologie Ustavu experimentalnej mediciny SAV v Bratislave a Neurologicka klinika Lekarskej fakulty UK v Bratislave.

*

L 3523-66 EWT(1)/EWP(m)/T IJP(c)

ACCESSION NR: AT5022294 UR/3138/65/000/329/0001/0011

AUTHOR: Zakharov, V. I.; Kobzarev, I. Yu.

TITLE: Spin precession in gravitational field

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 329, 1965. Spin precession in gravitational field, 1-11

TOPIC TAGS: electron spin, gravitation field, quantum electrodynamics

ABSTRACT: It is shown that the precession frequency of the electron spin may be obtained by using the linearized interaction energy for the electron

$$L_{int} = - 1/2\ h_{ik} T_{ik} \qquad (1)$$

where $g_{ik} = \delta_{ik} + h_{ik}$, and T_{ik} is the energy momentum tensor. It is explained how this precession is contained in the iterated Dirac equation. The equality of the precession frequencies of the electron spin and of the classical gyroscope is shown to follow from the linearized interaction as well as from the iterated Dirac equation in a four-leg formulation. The discussion is divided into (1) precession of electron at rest, (2) spin precession of a rotating body in gravitational field, and (3) derivation of spin precession equation from the iterated Dirac equation.

Card 1/2

L 3523-66

ACCESSION NR: AT5022294

"Thanks are due to L. B. Okun for the discussion of this paper." Orig. art. has: 21 formulas.

ASSOCIATION: None

SUBMITTED: 00 ENCL: 00 SUB CODE: NP

NO REF SOV: 002 OTHER: 018

Card 2/2

KOBSEYEV, A A

USSR/ Electronics - Automatic radio switches

Card 1/1 Pub. 133 - 16/19

Authors : Vinokurov, B. M., technician; and Kobseev, A. A., radio mechanic

Title : Automatic switching for the RK-0.5 transmitter-receiver

Periodical : Vest. svyazi 4 (181), page 30, Apr 1955

Abstract : A device for the automatic switching of the RK-0.5 radio receiver-transmitter is described. A circuit diagram of the set is given. The automatic switch consists of a series of relays.

Institution : .....

Submitted : .....

GRIGOR'YEV, V.V.; ZAKREVSKIY, V.S.; BURNYKH, V.S.; KOBTSEV, A.F.; TKACHENKO, M.F.

Hydraulic efficiency of Donets gas pipelines. Gaz. delo no.8: 25-29 '64. (MIRA 17:9)

1. Donetskoye upravleniye magistral'nykh gazoprovodov i Ukrainskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta prirodnogo gaza.

BURNYKH, V.S.; KOBTSEV, A.F.

Enthalpy of Shebelinka and other natural gases. Gaz. prom. 9 no.3:7-12 '64. (MIRA 17:9)

KOBTSEV, M. F.

Kobtsev, M. F. - "Investigation of Fodder Regions of Various Types in Terms of Highly Productive Cows of the Alatau Breed." Min Higher Education USSR. Alma-Ata Zooveterinary Inst. Alma-Ata, 1956 (Dissertation for the Degree of Candidate in Agricultural Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

KOB'TSEV M.F.

USSR / Farm Animals. General Problems. Q

Abs Jour : Ref Zhur - Biologiya, No 5, 19[illegible], No. 21193

Author : Kob'tsev M.
Inst : Not given
Title : Feeding Cattle with Corn
Orig Pub : S. kh. Kazakhstana, 1957, No 10, 20-23

Abstract : It was determined in experiments which investigated digestibility and balance of N, Ca, P during the stall period when feeding consisted of 18 c of hay, 36 c of corn silage, 11 c of ground brewer's yeast, 8 c of concentrates, 22 c of juicy feeds per cow that Ca and P balance were positive in cows, but that the N balance was negative. It was determined in experiments in which pregnant and nursing sheep were fed corn silage that it is possible to feed them silage in the amount of 30 percent of the general nutritional

Card 1/2

8

KOBTSEV, P.F., veterinarnyy vrach

Ridding a poultry farm of tuberculosis. Veterinariia 40 no.10:5-6 O'63. (MIRA 17:5)

1. Kolkhoz imeni Il'icha, Belovskogo rayona, Kemerovskoy oblasti.

BLANK, S.M.; KOBTSEV, Ye.Yu.; YURCHENKO, V.I.

Elements made of cement wood in ground-level structures of main pipelines. Stroi. truboprov. 7 no.10:29-30 O '62.
(MIRA 15:11)

1. Trest Promstroymaterialy, Lyubertsy.
(Lightweight concrete) (Insulating materials)
(Pipelines--Buildings and structures)

86808

S/185/60/005/001/007/018
A151/A029

24,7800 (1035, 1142, 1162)

AUTHORS: Nekrasov, M.M.; Kobtsev, Yu.D.

TITLE: Non-Linear Ferro-Electric Systems with Various Curie Temperatures

PERIODICAL: Ukrayins'kyy Fizychnyy Zhurnal, 1960, Vol. 5, No. 1, pp. 75 - 78

TEXT: In the binary systems, the Curie point is not expressed very sharply (there is only a Curie zone). This shows that an admixture of a ferro-electric component (i.e., $BaSnO_3$) decreases the ferro-electric properties (Refs. 3,4,). Therefore, ternary systems were taken for investigation in this work. (Ba (Ti, Sn, Zr) O_3). On the basis of the ternary systems there are more possibilities to produce a sharply nonhomogeneous inner field by means of selecting components which compensate the voluminal electro-striction in the case of a more favorable packing of the system. This article investigates the properties of ternary systems based on Ba ($Ti_{0.75}$, $Sn_{0.1}$ $Zr_{0.15}$) O_3, which under various conditions and procedures of burning can yield a maximum of the dependence $\varepsilon = \varphi(t^\circ)$ from -40 to + 3°C. Even two temperature maxima of ε are possible. In this case (for a variety of samples) the first maximum will be at a temperature of - 40 ÷ - 20°C, the second at + 400 ÷ + 410°C. Apart from this, a certain increase in ε was noted

Card 1/3

86808

S/185/60/005/001/007/019
A151/A029

Non-Linear Ferro-Electric Systems with Various Curie Temperatures

at + 80°C. In a lower temperature maximum ε reaches a value of the order of 1,500. At 500°C, ε reaches a value of the order of 1,750. At a higher temperature the dielectric constant starts dropping. The dependence of dielectric constant on temperature was determined on a thermo-dielectric recorder by measuring the current which passes through the sample at a frequency f = 1,000 c/s. The ferro--ceramic samples were placed in a TΓ-02 ("TH-02") type kiln and fastened to stainless steel electrode holders. The measurements of ε and tg δ [ABSTRACTOR'S NOTE: tgδ is the tangent of the angle of dielectric losses] within the field of low temperatures were effected by a resonant method on the bridge RPT 1002. The dielectric hysteresis was observed in samples between the upper and the lower Curie point within the whole temperature range. According to the oscillograms of the dielectric hysteresis a number of characteristic values were determined: effective capacitance, differential capacitance, differential nonlinearity, nonlinearity of saturation and the effective nonlinearity. The investigation of the reversible dependence of the dielectric constant of the ternary system was carried out within a wide range of sound frequencies up to $2 \cdot 10^4$ c/s. The highest change in the reversible dielectric constant (Ref. 2) at a temperature of 18 ÷ 20°C was observed at the tension of the alternating field amounting to 2,500 v/cm. On the

Card 2/3

Card 3/3

NEKRASOV, M.M.; KOBTSEV, Yu.D.

Nonlinear seignettoelectric systems with several Curie temperatures.
Ukr. fiz. zhur. 5 no.1:75-78 Ja-F '60. (MIRA 14:6)

1. Kiyevskiy politekhnicheskiy institut.
(Ferroelectricity)